to Ecuador---Guayaquil's Fight With Fever Gateway Plague and

Can It Be Cleaned for the Panama Canal?-Big Contracts Under Way - Yellow Fever Now Raging - The Bubonic Plague and the Terrible Rat. How the City Looks-Its Big Business in Ivory, Nuts and Cacao-New Railroads Which Will Connect Quito With the Amazon.

BY FRANK G. CARPENTER. Guayaquil, Ecuador

Guayaquil, Ecuador.

UAYAQUIL it the New York of Ecuador. It is the chief port of the country. It has an export and import trade of more than \$20,000,000 a year, and this will be quadrupled if the place can be made healthy. It is important to us that it should be so, for it is the first port south of Panama. It is not as fat from Panama as is New York from Chicago, and when the canal is completed cago, and when the canal is completed it will be nearer Boston than from Boston to Liverpool. The town lies about sixty miles from the ocean. It is on the wide and deep Guayas River. up which boats can go during the rainy season for 200 or 300 miles. The town lies almost on the equator. It is under the shadow of the snowy peaks of Chimborazo and Cotopaxi, but it is surrounded by jungle. Just now it is afflicted with bubonic plague and yellow fever, and these conditions will have to be wiped out before Ecuador can be allowed the free use of the Panama Canal.

The Ecuadorians have come to realize the seriousness of their situation. They know that their ports must be made clean or they will block the country's development. The government has been discussing the question for several years, and foreign experts have been called in to make plans for the cleaning of Guayaquil. Dr. Gorgas has been here and given suggestions, and scheme after scheme has been proposed to remedy the evil. Just now a contract with J. G. White & Co., of New York and London, is under way. That firm has had its engineers on the ground, and it is ready to enter into a contract for a series of public improvements that will cost \$10,000,000. This sum be enough to do the things immediately necessary. It will pave the streets, put in sewers, increase the water supply and inaugurate a systematic upbuilding and renovation that will make the port safe for the traveler

At present Guayaquil is so dangerous that no one stops here who can help it. The new cases of bubonic plague now number ten or more every day, and there have been seventy new cases of yellow fever reported within the past two weeks. The officials have begun to vaccinate for the plague, and the moment the traveler lands he is grabbed by the doctor and the plague the third is a little black rat. The serum is injected into his arm. He black rat is most common in Guayaof juice containing some millions of bacilli under the skin. The arm is nore a short while, but the vaccine does

He has visited every port

the most of its houses stand close to the ground, and many of them have wooden floors, under which the rats can burrow. The walls have to New Orleans, New York or Boston.

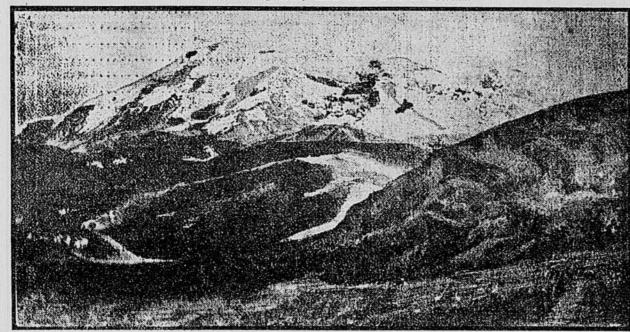
of its rats have fleas. The bubonic dague is transmitted by these fleas bitng such rats as have the plague, and then going from them to men, women or children and biting them. A flea that has bitten a sick rat will carry the plague in its system for ten or tweive days, and if it bites you during that time the plague bacilli will go at that time Colonel Gorgas was into your blood. They will multiply much alarmed at the danger of the pest rapidly, and within five or horrible pain.

arry the plague. He replied; "Almost ground. kind, but there are three which are One is the big

GIRLS! CLEAN AND BEAUTIFY HAIR

NO DANDRUFF—25 CENT DANDERINE





Guayaquil is under the shadow of Mt. Chimborazo

bacilli under the skin. The arm is bore a short while, but the vaccine does not make you sick. This is supposed to render one immune from the plague and I shall not stop in Ecuador on account of it. I have seen a great deal of vaccination is by the Yersin antitoxin. It is given only to those who have caught the plague, and is supposed to neutralize the poison in the system.

During my stay at Panama I had a long chair with Dr. R. C. Perry, the chief health officer, who is in charge of the sanitary conditions at the Isth-mus with regard to the ports along the mus with regard to the ports along the marks and it raged in the densely built regard to the ports along the marks will do much the way supposed to be a yellow fever. I have spoken of the death of Dr. Wightman. He was supposed to be a yellow fever immune. A third prominent case is that of Major John A. Harman, the engineer who built the railway over the Andes from Guayaquil to Quito, and a fourth is that of Commander Bertolette, of our gunboat Yorktown, who died only a short time ago.

The yellow fever immune. A third prominent case is that of Major John A. Harman, the engineer who built the railway over the Andes from Guayaquil to with a special count of the twee spoken of the death of Dr. Wightman. He was supposed to be a yellow fever immune. A third prominent case is that of Major John A. Harman, the engineer who built the railway over the Andes from Guayaquil to with the regard to be a yellow fever immune. A third prominent case is that of Major John A. Harman, the engineer who built the railway over the shout the railway over the supposed to be a yellow fever immune. A third prominent case is that of Major J

mus with regard to the ports along the rats, and it raged in the densely built west coast. He has visited every port warrens of the Chinese at Hongkong, from Callao to Panama, and has spent where it has since broken out again and much time in studying the situation again. The English government there at Guayaquil. He tells me that the is doing all that is possible to control only way in which this city can be it, but the city will have to be rebuilt to make it absolutely safe; and, as Dr. Perry says, the same condition obtains

It would be terrible if this plague wooden posts, upon which are nailed it is wonderfully catching, although aths of split bamboo. This frameit can be transmitted only by fleas and Nevertheless, work is covered with stucco on the outside, and plaster or boards on the inside. It makes a beautiful wall the years between the sixth and eighto look at, but the rats can crawl inside the wall and walk up the lathing. Many of the poorer houses are built right on the ground. Dr. Perry says that they should be jacked up and placed on posts so high that the rats of 1665 and 1666, and it is the same as could not jump to the first floor. He says that the floors of the better class fourteenth century. Those two plagues ouses should be of cement, and that are said to have come from China. The tions, as the rats will burrow under until about 1908, when it was brought any ordinary floor. until about 1908, when it was brought in, some claim, from Paita, Peru, and others by certain Asiatic ships that As it is now, according to Dr. Perry, called here. The people were warned mayaquil has rats everywhere, and all of their danger by Dr. J. B. Lloyd, the American health officer, who was then stationed in Ecuador, and for a time he was allowed to try to control it. Later on he was repudiated by the Ecuadorian government, and Dr. W. M. Wightman was sent in his place. Dr. Wightman took the yellow fever and

much alarmed at the danger of the pest getting a foothold on the Isthmus, and chances are that you will die in in order to keep it out of Colon he had I asked Dr. Perry what kind of rats infested with rats, burned to the

The danger of yellow fever getting

Danderine is to the hair what fresh

tree rat, which has a white belly, and serious one, and this disease, also, will while the water is running. The tanks grabbed by the doctor and the plague serious one, and this disease, also, will have to be wiped out before Americans will black rat is most common in Guayanthe has been vaccinated, and he has to show this before he is allowed to go into the interior. There are two kinds of vaccination given for the plague to other rats, and it sometimes becomes epidemic among them. The one used here is the Hafkine pro-The one used here is the Hafkine process. It consists in injecting the dead cultures of the plague bacilli. The needle hurts as it goes into your arm, and you have at the end a little pouch of juice containing some millions of bacilli under the skin. The arm is pore a short while, but the vaccine does

times becomes epidemic among them, although they run from it. If a rat dies of the plague in a block or house, the plague in a block or house, the uninfected rats of that block seem to know it, and they will desert the block and go somewhere else."

cases now every day. It is not safe for any American to settle in Guayaquit to do business in its present condition. You will remember that Thomas Nast, the famous cartoonist, was appointed to know it, and they will desert the block and go somewhere else."

bacilli under the skin. The arm is parely and the purpose, and thus carried to do business in its present condition. You will remember that Thomas Nast, the famous cartoonist, was appointed to save a specific provided in the purpose, and thus carried to do business in its present condition. You will remember that Thomas Nast, the famous cartoonist, was appointed to some the deal of the consul here, and how he came to his grave. He died of yellow fever. I have spoken of the death of Dr. Wight-man. He was supposed to be a vellow.

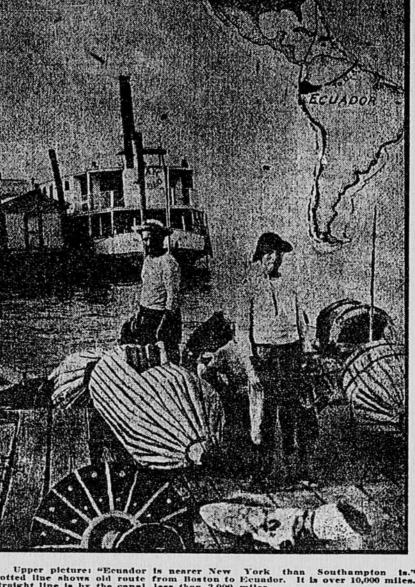
we will remember that Thomas Nath.
The covering of the garbage cans the famous carteonist, was appointed the famous carteonist, was appointed the famous carteonist, was appointed to the famous carteonist, was the famous carteonists, which is a proposed that the half was the famous carteonists, was the famous carteonists of the cart of the month I received the news of young Johnson's death.

Another danger at Guayaquil is from malarial fever, similar to that which caused so many deaths on the Isthmus at the time of the building of the Pan-ama Railroad. This, the Ecuadorians call perniciosa and it is known to the Panamans as the Chagres fever. Guayaquil, Perniciosa comes from the bite of the anophele mosquito, which is very different from that of the stegomyla, which carries the yellow more than a half million dollars' worth of small houses, that were said to be infested with rats, burned to the the latter is fond of rain barrels, and it does not like dirty water. The anophele has its chief feeding time at night, and for the most part it lives out of doors. The stegomyla usually bites in the daytime, although it likes to keep out of the sun.

Neither of these mosquitoes is as big that they cause many other diseases than those I have mentioned. There is one that will carry the elephantiasis. This is a little devil with a yellowish body and six yellow bands around its abdomen. It carries a kind of bacilli that forms worms in your blood. They walk and sometimes the hair so naturally so awayly that Stop washing hair! Try this!

Besides beautifying the hair, one application of Danderine dissolves every particle of dandruff; invigorates the scalp, stopping itching and falling that forms worms in your blood. They make your legs swell and sometimes cause death.

Surely try a "Danderine Halr showers of rain and sunshine are to eanse" if you wish to immediately vegetation. It goes right to the roots, Dr. Perry says the only way that yellow fever can be permanently wiped out of Guayaquil is by cutting down the vegetation, cleaning up the gar-

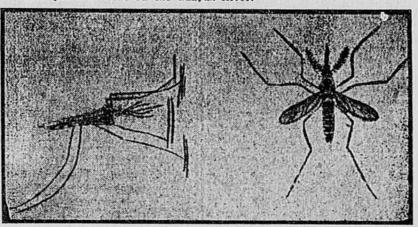


Upper picture: "Ecuador is nearer New York than Southampton is."

Dotted line shows old route from Boston to Ecuador. It is over 10,000 miles.

Straight line is by the canal, less than 3,000 miles.

Lower picture: Scene on the Guayas River.



Ecuador's two most dangerous mosquitoes.

railroad to Quito belongs to Americans, though I have heard the charge made

it will soon be thrown open to immigrants. (Copyright, 1914, by Frank G. Car-

A. & M. COLLEGE

[Special to The Times-Dispatch.] West Raleigh, N. C., February 7.—The winter short course in agriculture ended to-day. There were thirty-four men in this class. This course covers four weeks after Christmas, and is offered for the farmers who cannot get away from their work at other times during the year. Before Christmas it was expected that there would be more than 100 men to take the course this year. Besides the regular classes, three very interesting lectures were delivthe changes which have taken place in agriculture in recent years and the steps the farmers will have to take to keep up with these changes; the second lecture was by Professor Camp, in charge of rural economics, on the question of marketing; the third lecture was delivered on Wednesday night by J. M. Johnson, of Norfolk, who has charge of the farm investigation work in this State. Mr. Johnson gave the results of various farm life surveys in different sections of the State.

different sections of the State.

The following men have been pledged by the different fraternities at A. & M.: Sigma Nu, C. S. Parker, Jr., of Hertford; Kappa Sigma, H. S. McLean, of Gastonia; R. T. B. Little, of Wadesboro; Borden Davis, of Goldsboro; F. J. Bounds, of Weldon; A. N. Goodson, of Concord; Kappa Alpha, W. W. Riddick, of West Raleigh; Ben Temple, of Danville, Va.; T. B. Misenheimer, of Charlotte; W. C. Dodson, of Greensboro; R. H. Royster, of Oxford; Pl Kappa Alpha, W. O. McDowell, of Scotland Neck; Watt Martin, of Winston-Salem; E. E. Boyce, of Gastonia; Sigma Phi Epsilon, J. D. Collier, of Goldsboro; B. D. Hodges and R. H. Hodges, of Washington; J. W. Artz, of Old Fort; J. D. Hunt, of Pomona; F. S. Morrison, of Statesville.

or Pomona; F. S. Morrison, of Statesville.

The executive committee of the college met this week. Those present were W. H. Ragan, of High Point; C. W. Gold, of Greensboro; R. H. Ricks, of Rocky Mount; O. L. Clarke, of Clarke ton; T. T. Thorne, of Rocky Mount. The committee made arrangements to provide adequate equipment for the forge shop in the new building now being erected. This forge room will be excellently lighted and aired, and apparatus for carrying off the smoke by down draft will be installed, and it is hoped that this shop will be entirely free from smoke. The committee also approves a plan for an anniversary celebration of the twenty-fifth year of the work of the college, this celebration to be held on the 3d of next October. A good many other matters of minor importance and regular routine were considered and acted on by the committee.

The Thalarian German Club held its

The Thalarian German Club held its February dance in the Pullen Hall ball-room on Saturday night. About thirty couples and a large number were pres-ent. There were also many visitors, including a large number of students from the university and several from Trinity College.

NEWS OF V. P. I.

[Special to The Times-Dispatch.] Blacksburg, Va., February 7 .- The attendance during the first week of the winter course in agriculture has been just double that for the whole course in any previous year, fortyeight men having registered to date, representing nearly every section of Virginia. While fifty-nine students were entered for the short course in and was built by them, but Ecuador many times. Politics also enters into 1909, twenty-five of these were Mont-

NORMAL NOTES

The debutante daughter of the Speak-FEW FOLKS HAVE **GRAY HAIR NOW**

most

been one of the

Well-known local druggist says everybody is using old-time recipe of Sage Tea

and Sulphur.

Hair that loses its color and lustre, or when it fades, turns gray, dull and lifeless, is caused by a lack of sulphur in the hair. Our grandmother made up a mixture of Sage Tea and Sulphur as the New Jersey variety, nor have as feroclous. Dr. Gorgas once told me as feroclous. Dr. Gorgas once told me that there were about 200 different to keep her locks dark and beautiful, and thousands of women and men who

> the hair so naturally, so evenly, that nobody can possibly tell it has been applied. Besides, it takes off dandruff, stops scalp itching and falling hair. You just dampen a sponge or soft brush with it and draw this through

young women in capital society since she made her debut.

ed a love of books from both sides of her family, and is interested in both woman suffrage and settlement work. At the same time she can beat many an old-fashioned hearth-side woman at cooking. She finished her education at the Friends' School in Washington One of Capital's Favorites.

There will be no dispute over Mr. Williams' selection of Mrs. Paul Spearsall for this list of the capital's most beautiful women. As miss Martha Hichborn, daughter of Rear-Admiral Philip S. Hichborn, United States Navy, she was one of the radiant beauties and one of the most popular belies of the navy circles. Her dirst marriage—to James G. Blaine, Jr., son of the famous "plumed knight"—proved unhappy and she divorced him. Her beauty has been enhanced by her premature gray hair.

In one of Washington's law schools one would not ordinarily look for a beauty of the official set, but that is where Mrs. Bird Segle McGuire is now.

one would not ordinarily look for a beauty of the official set, but that is where Mrs. Bird Segle McGuire is now to be found of evenings. She is working for a barrister's degree, not for a ca reer, but that she may understand the problems with which her husband haz to deal.

to deal.

As Miss Ruby Ridgeway-Matchette she was one of the beauties of Kansas City when she married Representative McGuire three years ago. Her husband is a native of lilinois and practiced law in Kansas until he went to Okiohama to grow up with the territory, which he represented in Congress as a delegate in the days just prior to statehood. Why They Are Beautiful.

Why They Are Beautiful.
Why these lovely women especially please
his artistic eye Mr. Williams has permitted
me to state.
"I especially admire the beautiful eyes and
delightful, broad, low forchead of Mme.
Havenith," said he. "She has a well-shaped
head, which is beautifully poised upon her
shoulders.

head, which is beautifully sweet expression about the eyes of the Countess von Bernstorff, and she has a magnificent neck and shoulders. She is most stately, and she dresses her hair magnificently.

"The eyes of Mme. Naon are wonderfully magnetic and are all the more superb in contrast with her pearly white complexion. She has a charming profile and wears her hair charmingly.

are wonderfully bright, her nose excellently shaped, her mouth determined, yet exquisite. And she puts her hair up most beautifully. "There is a depth of wonderful expression in the face of Mrs. McGuire. It is learned, thoughtful, beautiful and possesses a mysterious sadness. It is a face that reflects soil. Her brow is beautifully broad." "Which of these ladies is the most beautiful?" I asked the painter in conclusion. "I could not possibly decide. The types are too diverse and I am too cosmopolitan in my tastes to judge between them. Each is beautiful in her own individual way. "It think that Mrs. Plice Posset vi Long-with the properties of the most beautiful American women I have ever seen her since-one of the most beautiful American women I have ever seen. She had one of the most exquisite mouths I have ever beheld—a delightfully sweet, kind mouth, perfectly shaped. And her eyes were wonderful, with their strange green tints, especially intensified by her favorite color scheme of dressing in green.
"Her sister, Miss Ethel, was also a beauty, and so, I think, is Mrs. Sayre, the daughter of President Wilson."

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FRUIT LAXATIVE FOR SICK CHILD GIVE "CALIFORNIA SYRUP OF FIGS"

injury.

Every mother realizes that this is the children's ideal laxative and physic, because they love its pleasant taste and it never falls to effect a thorough "inside cleansing" without griping.

When your child is cross, 'irritable, feverish, or breath is bad, stomach sour, look at the tongue, mother! If coated, give a teaspoonful of "California Syrup of Figs." and in a few hour-

Cleanses tender little stomach, playful child again. When its little system is full of cold, throat sore, has stomach ache, diarrhoea, indigestion, and the control of the colic—remember, a good liver and bowel cleaning should always be the

first treatment given.

Millions of mothers keep "California Syrup of Figs" handy; they know a teaspoonful to-day saves a sick child to-morrow. Directions for bables, ckildren of all ages and grown-ups are

plainly on each bottle.

Ask your druggist for a 50-cent bottle of "California Syrup of Figs."

Beware of counterfeits sold here. Get the genuine, made by "California Fig Syrup Company." Refuse any other

uble the hearty of your hair. Just invigorates and strengthens them. Its oisten a cloth with Danderine and exhilarating, stimulating and life-pro-aw it carefully through your hair, ducing properties cause the hair to aw it carefully through your hair, and lots of it, if you inutes you will be mazed. Your air will be wavy, fluffy and abundant ton's Danderine from any drug store and luxuriance.

ducing properties cause the hair to grow long, strong and beautiful.

You can surely have pretty, soft, to rany excessive oil—in a few lustrous hair, and lots of it, if you will be mazed. Your will just get a 25-cent bottle of Knowling it will be wavy, fluffy and abundant ton's Danderine from any drug store and luxuriance.

Dage, covering the rain barrels, puting oil upon the ditches and enlarging the water supply. The city now has good water, but the volume is not sufficient, and the water is allowed to be drawn only a certain part of each day. For this reason many families have storage tanks, which they fill nia Syrup of Figs," and in a few hours the genuine, made by "California Fig all the foul, constipated waste, sour bile and undigested food passes out fig syrup with contempt.—Advertisehair charmingly.

"The coloring of Mrs. Gerry is exquisite all the foul, constipated waste, sour all the foul, constipated waste, sour bile and undigested food passes out is a very high-bred, essentially aristocratic of the bowels and you have a well, ment. .astre and luxuriance.